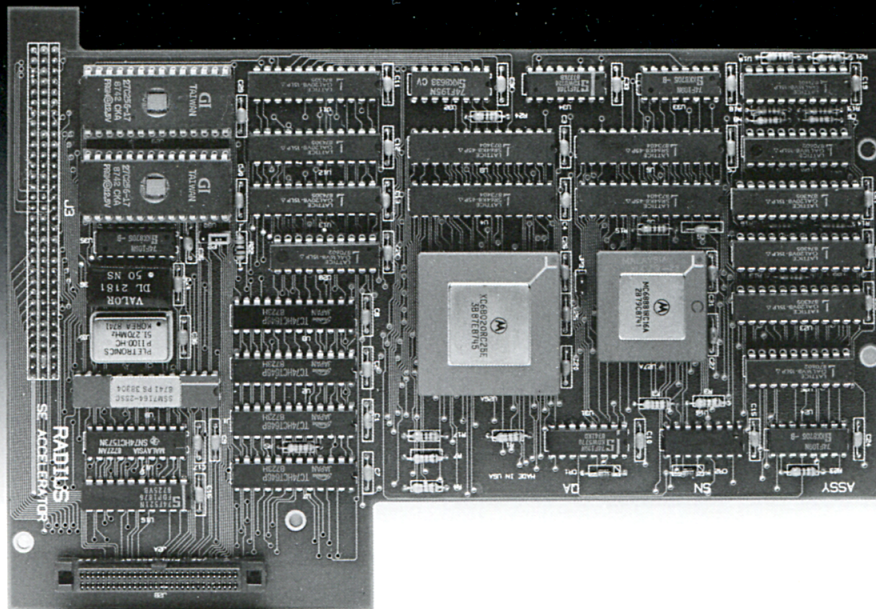


Radius Accelerator 25™

25 MHz Processor Card
for the Macintosh SE



Product Description

The Radius Accelerator 25™ is a state-of-the-art enhancement for your Macintosh SE that increases your computer's speed up to six times. Designed for the serious user, the Accelerator 25 provides the raw computing power to process complex spreadsheets or manipulate large, detailed graphics files. Machine response is dramatically faster when faced with the most demanding tasks. The Accelerator 25 is powered by the 32-bit Motorola 68020 microprocessor running at a lightning fast 25 MHz. The Accelerator also supports an optional floating point coprocessor, the MC68881, which can execute numerical operations up to 100 times faster than the Macintosh SE.

Performance by Design.

The Radius Accelerator 25 design optimizes performance and value. Instead of expensive RAM, the board uses write-through logic with a unique, high speed hardware cache consisting of 32K bytes of static RAM. This combination provides a 32-bit wide data path and zero wait states for high speed access to the display buffer, resulting in very fast screen response. The architecture optimizes performance while reducing cost, board size, and power requirements. Numerical performance is further enhanced with SANE (Standard Apple Numeric Environment) software routines developed by Radius that improve computation speeds

up to 15-fold over the standard version.

Compatibility & Expandability.

Advanced firmware and cache controls in the Accelerator 25 maximize performance and compatibility. The Accelerator works with all standard accessory hardware as well as Microsoft Excel and Word, PageMaker, Illustrator and all other popular applications. With the Radius MagicBus™ expansion connector, the Accelerator 25 supports both the Radius Full Page Display™ and the Radius Two Page Display™ large screen monitors. Compatibility with Apple's standard, low profile SIMM upgrades permits expansion of the SE's memory up to 4 Megabytes.

Applications

- Desktop Publishing
- Graphic Design
- Data Processing
- Engineering

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Features	Benefits
25 MHz Processor	Up to six-fold operating speed increase for the Macintosh SE.
Hardware Cache	Superb on-screen performance, low cost, and compatibility with Apple memory upgrades.
Floating Point Coprocessor	25 MHz MC68881 provides up to 100-fold increase in execution speed of numerical operations.
Radius SANE Software	Provides 1.5 to 15 times better performance than standard SANE routines and meets IEEE standards.
MagicBus™ Connector	Compatibility with the family of Radius products, including Two Page Display and Full Page Display.
Interactive Control Panels	Provide optimum flexibility and compatibility through easy, interactive controls.

System Requirements	Macintosh SE.
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Specifications

Hardware

Processors: Motorola MC68020 CPU
Motorola MC68881 math coprocessor.
Clock Speed: 25.6350 MHz for both MC68020 and MC68881
Design: Full CMOS logic
32K byte static RAM cache for both data and instructions.

Controls

Preference Panel: Controls for the Accelerator, Data Cache and Code Cache.
Desk Accessory: Control panel for Data and Code Caches.

Interface

Radius MagicBus™ connector for a second internal expansion board.

Power

Macintosh Internal Supply
Consumption: 5 Watts

Compatibility

Hardware: Fully compatible with SCSI, sound drivers, HD-20, 40, and 80, LaserWriter, Apple-Talk, and Radius Full Page and Two Page Displays.
Software: Compatible with all standard Macintosh software. Call Radius or your dealer for specific information.

Internal Software

Radius enhanced Standard Apple Numeric Environment (SANE).
Control software for cache management as Desk Accessory.

Regulatory Approvals

RFI: FCC Class A

Environmental

Operating temperature: 10° to 40°C
50° to 104°F
Storage temperature: -40° to 50°C
-40° to 122°F
Humidity: 5% to 90% RH
non condensing
Altitude: 0 to 4615 m (0 to 15,000 ft)

Ordering Information

The Accelerator 25 includes card, User's Manual, and Installation Guide. Contact your local Radius Dealer or call Radius (408) 434-1010 for dealer information.

Accelerator 25 for Mac SE: Product Number 0014

Accelerator 25 with 68881 for Mac SE: Product Number 0016

Accelerator 25 Optional 68881 coprocessor: Product Number 337-0003

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